INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

STATEMENT OF GRADES OBTAINED FOR THE 10 SEMESTER DUAL DEGREE IN ENGINEERING/TECHNOLOGY LEADING TO THE AWARD OF

BACHELOR OF TECHNOLOGY (HONOURS) AND MASTER OF TECHNOLOGY

Roll No: 18AE3AI01 **Name: ANKIT SINGH** **Year of Admission : 2018-2019**

Course: B.Tech.(Hons.) in AEROSPACE ENGINEERING and MASTER OF ARTIFICIAL INTELLIGENCE MACHINE LEARNING AND APPLICATIONS **Year of Graduation : 2022-2023**

For Semester 1 SGPA: 7.73 CGPA: 7.73

Subno	Name	L-T-P	CRD	GRD
CY11001	CHEMISTRY	3-1-0	4	B
CY19001	CHEMISTRY LAB.	0-0-3	2	A
EA10001	EXTRA ACADEMIC ACTIVITY-I	0-0-3	0	A
EA10005	INDUCTION PROGRAM	0-0-0	0	Y
EE11001	ELECTRICAL TECHNOLOGY	3-1-0	4	D
EE19001	ELECTRICAL TECHNOLOGY LAB.	0-0-3	2	B
HS13001	ENGLISH FOR COMMUNICATION	3-0-2	4	C
MA10001	MATHEMATICS-I	3-1-0	4	A
ME19001	INTRODUCTION TO MANUFACTURING PROCESSES	0-0-3	2	B

For Semester 2 SGPA: 9.09 CGPA: 8.42

Subno	Name	L-T-P	CRD	GRD
CE13001	ENGINEERING DRAWING AND COMPUTER GRAPHICS	1-0-3	3	A
CS10001	PROGRAMMING AND DATA STRUCTURES	3-0-0	3	B
CS19101	PROGRAMMING AND DATA STRUCTURES TUTORIAL AND LABORATORY	0-1-3	3	EX
EA10002	EXTRA ACADEMIC ACTIVITY-II	0-0-3	0	A
MA10002	MATHEMATICS-II	3-1-0	4	EX
ME10001	MECHANICS	3-1-0	4	EX
PH11001	PHYSICS	3-1-0	4	B
PH19001	PHYSICS LAB.	0-0-3	2	B

For Semester 3 SGPA: 8.86 CGPA: 8.56

Subno	Name	L-T-P	CRD	GRD
AE21001	INTRODUCTION TO AERODYNAMICS	3-1-0	4	A
AE21003	DYNAMICS FOR AEROSPACE ENGINEERS	3-1-0	4	B
BS20001	SCIENCE OF LIVING SYSTEM	2-0-0	2	B
EA10003	EXTRA ACADEMIC ACTIVITY-III	0-0-3	0	A
EC21101	BASIC ELECTRONICS	3-1-0	4	EX
EC29001	BASIC ELECTRONICS LAB.	0-0-3	2	A
EV20001	ENVIRONMENTAL SCIENCE	2-0-0	2	C
MA20101	TRANSFORM CALCULUS	3-0-0	3	EX

For Semester 4 SGPA: 8.90 CGPA: 8.64

Subno	Name	L-T-P	CRD	GRD
AE21002	LOW SPEED AERODYNAMICS	3-1-0	4	A
AE21004	INTRODUCTION TO AEROSPACE STRUCTURES	3-1-0	4	A
AE21008	INTRODUCTION TO FLIGHT VEHICLE CONTROLS	3-0-0	3	A
AE29002	AERODYNAMICS LAB-I	0-0-3	2	EX
AE29004	STRUCTURES LAB -I	0-0-3	2	EX
EA10004	EXTRA ACADEMIC ACTIVITY-IV	0-0-3	0	A
MA20102	NUMERICAL SOLUTION OF ORDINARY AND PDE	3-0-0	3	A
RX60012	SCIENCE OF HAPPINESS AND WELL-BEING	2-0-2	3	C

For Semester 5 SGPA: 7.74 CGPA: 8.45

Subno	Name	L-T-P	CRD	GRD
AE31001	THERMODYNAMICS & AEROSPACE PROP.SYSTEM	3-1-0	4	B
AE31007	MECHANICS OF FLIGHT	3-1-0	4	P
AE31009	AEROSPACE STRUCTURAL ANALYSIS	3-1-0	4	A
AE31103	HIGH SPEED AERODYNAMICS	3-1-0	4	C
AE39001	AERODYNAMICS LAB-II	0-0-3	2	EX
AE39003	STRUCTURES LAB -II	0-0-3	2	D
MA41009	PROBABILITY AND STATISTICS	3-0-0	3	EX

For Semester 6 SGPA: 8.43 CGPA: 8.45

Subno	Name	L-T-P	CRD	GRD
AE31002	AEROSPACE STRUCTURAL DYNAMICS	3-1-0	4	A
AE31004	AIRCRAFT STABILITY AND CONTROL	3-1-0	4	B
AE31006	COMPUTER APPLICATION IN AERO. ENGINEERING	3-0-0	3	B
AE31008	THEORY OF JET PROPULSION	3-1-0	4	A
AE31010	VISCOUS FLOW THEORY	3-1-0	4	C
AE39002	SYSTEM LABORATORY	0-0-3	2	EX
AE39004	PROPULSION LABORATORY	0-0-3	2	A

For Semester 7 SGPA: 7.76 CGPA: 8.34

Subno	Name	L-T-P	CRD	GRD
AE49003	AIRCRAFT DESIGN & OPTIMISATION	1-0-3	3	EX
AI61003	LINEAR ALGEBRA FOR AI AND ML	3-1-0	4	B
AI61005	ARTIFICIAL INTELLIGENCE: FOUNDATIONS AND APPLICATIONS	3-1-0	4	C
AI61009	ARTIFICIAL INTELLIGENCE FOR MANUFACTURING	3-1-0	4	B
CS60075	NATURAL LANGUAGE PROCESSING	3-0-0	3	D
MA21203	COMBINATORICS AND GRAPH THEORY	3-1-0	4	A
MA40003	SYSTEMS PROGRAMMING	3-0-0	3	D

For Semester 8 SGPA: 8.52 CGPA: 8.37

Subno	Name	L-T-P	CRD	GRD
AE48002	COMPREHENSIVE VIVA VOCE	0-0-0	2	C
AI42001	MACHINE LEARNING FOUNDATIONS AND APPLICATIONS	3-0-3	5	EX
AI60004	BIG DATA PROCESSING	3-0-0	3	A
AI61002	DEEP LEARNING FOUNDATIONS AND APPLICATIONS	3-1-0	4	B
AI69002	DESIGN LABORATORY I	0-0-3	2	A
AT60002	PRINCIPLES OF AUTOMOTIVE DYNAMICS AND CONTROL	3-0-0	3	A
EP60020	FOUNDATIONS OF ENTREPRENEURSHIP	3-0-0	3	B
RX60017	SPORTS AND WELL-BEING	2-0-0	2	C
RX60019	HAPPINESS AT WORK	3-0-0	3	B

For Semester 9 SGPA: 6.53 CGPA: 8.21

Subno	Name	L-T-P	CRD	GRD
AE48003	SUMMER TRAINING	0-0-0	2	B
AI58001	COMPREHENSIVE VIVA VOCE	0-0-0	2	C
AI60201	GRAPHICAL AND GENERATIVE MODELS FOR MACHINE LEARNING	3-0-0	3	C
AI67001	PROJECT I	0-0-0	10	D

For Semester 10 SGPA: 6.83 CGPA: 8.10

Subno	Name	L-T-P	CRD	GRD
AI60006	DEPENDABLE AND SECURE AI-ML	3-0-0	3	D
AI67002	PROJECT II	0-0-0	15	C

Total Credits Taken in Major Curriculum: 220 **Total Credits Cleared: 220** **CGPA: 8.10**

Date of Issue: 22 June 2023 Checked by Senior Executive (Academic): Joint Registrar (Academic):

Digitally signed by Biswajit Bhattacharyya
Date: 2023.06.22 11:00:55 +05:30

GENERAL INFORMATION

1. **Abbreviations used in the grade card stands for:**

   LTP = Lecture, Tutorial, Practical; figures shown under this column indicate weekly contact hours prescribed for the Subject

   CRD = Credit carried by the Subject

   GRD = Grade obtained by student in the Subject

   CGPA = Cumulative Grade Point Average

   SGPA = Semester Grade Point Average

   GPA = Grade Point Average

2. **English is the medium of instruction at all levels.**

3. **Extra Academic Activity (EAA) subjects include NCC, NSS and NSO, NCA.**

4. **The seven-point letter grade system followed by the institute in assessing student's performance in a subject is as follows:**

Performance	Letter Grade	Grade Point Value Per Credit
Excellent	EX	10
Very Good	A	9
Good	B	8
Fair	C	7
Average	D	6
Pass	P	5

5. **Highest possible CGPA in the system is 10.00. No rank or class or division is awarded. The CGPA may be multiplied by a factor of 10 to obtain the numerical percentage for those students who have graduated in 2020-2021 or earlier.**
   The Conversion formula to be effective for all students from the graduation year 2021-2022 is as follows:
   Percentage of Marks=(20/7)*{(4*x)-5}, [where, x is CGPA]

6. **(I)** **A student is awarded a B.Tech. (Hons.); B.Arch. (Hons.); Dual Degree for B.Tech. (Hons.) & M.Tech.; Integrated B.Sc. (Hons.) and M.Sc.; Integrated B.Sc. (Hons.) and M.Sc. & M. Tech.; 4 Yrs. B.S.; 2 Yrs. or 3 Yrs. M.Sc. on completion of the curricular requirement with a minimum CGPA of 6.00.**

   (II) **The credits and grades obtained in additional subjects optionally taken by a student on satisfying the prescribed conditions do not contribute towards the CGPA.**

   (III) **The CGPA obtained by a student in additional subjects is computed separately. For the award of MINOR degree in a particular discipline, the credits and grades of the additional and other subjects that are taken into account are separately indicated along with the computed GPA.**

   (IV) **Minimum GPA for a Minor in any discipline is 6.00.**

7. **Duration of Course**

   Minimum duration of the B.Tech. (Hons.); B.Arch. (Hons.); Dual Degree for B.Tech. (Hons.) & M.Tech. (or MBA); Integrated B.Sc. (Hons.) and M.Sc.; Integrated B.Sc. (Hons.) and M.Sc. &M. Tech.; B.S. and M.Sc. degree is given on the front cover page.
   However, with the approval of the Senate a slow paced student may take more semesters to complete the degree requirements.

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Statement of Academic Performance

of

ANKIT SINGH

Five Year Programme in

BACHELOR OF TECHNOLOGY (HONOURS)
AND
MASTER OF TECHNOLOGY